This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (currently amended) A composition comprising a non-covalent association complex of:
  - a) a positively-charged backbone; and
  - b) at least two <u>non-identical</u> members selected from the group consisting of:
  - i) a negatively-charged backbone having a plurality of attached imaging moieties;
  - ii) a negatively-charged backbone having a plurality of attached targeting agents;
  - iii) at least one member selected from the group consisting of RNA, DNA, ribozymes, modified oligonucleotides and cDNA encoding a selected transgene;
    - iv) DNA encoding at least one persistence factor; and
  - v) a negatively-charged backbone having a plurality of attached biological agents;

wherein said association complex carries a net positive charge and at least one of said two members from group b) is selected from groups i), iii) or v.

 (withdrawn) A composition in accordance with claim 1, wherein said biological agent is a therapeutic agent.

- 3. (withdrawn) A composition in accordance with claim 2, wherein said therapeutic agent is selected from the group consisting of VEGF, botulinum toxin, a blocker of VEGF, and insulin.
- 4. (withdrawn) A composition in accordance with claim 1, wherein said biological agent is a cosmeceutical agent.
- 5. (withdrawn) A composition in accordance with claim 4, wherein said cosmeceutical agent is Epidermal growth factor.
- 6. (withdrawn) A composition in accordance with claim 1, comprising at least three members selected from groups i) through v).
- 7. (withdrawn) A composition in accordance with claim 1, comprising at least one member from each of groups i), ii), iii) and iv).
- 8. (withdrawn) A composition in accordance with claim 1, comprising at least one member from each of groups i) and ii).
- 9. (withdrawn) A composition in accordance with claim 1, comprising at least one member from each of groups ii), iii) and iv).

- 10. (original) A composition in accordance with claim 1, wherein said positively-charged backbone has a length of from about 1 to 4 times the combined lengths of said members from group b).
- 11. (original) A composition in accordance with claim 1, wherein said positively-charged backbone comprises a polymer having attached positively charged branching groups.
- 12. (currently amended) A composition in accordance with claim 11, wherein said polymer is a peptide and said positively charged branching groups emprises comprise one of the members of the group consisting of -(gly)<sub>n</sub>-arg-arg-arg-arg-arg-arg-arg (SEQ ID NO:9), HIV-TAT[[,]] and fragments thereof, wherein the subscript n is an integer of from 0 to 20.
- 13. (withdrawn) A composition in accordance with claim 12, wherein n is an integer of from 0 to 8.
- 14. (withdrawn) A composition in accordance with claim 12, wherein n is an integer of from 2 to 5.
- 15. (currently amended) A composition according to claim 12, wherein said positively charged branching groups have the formula (gly)<sub>p</sub>-RGRDDRRQRRR-(gly)<sub>q</sub>, (SEQ ID NO:19) or (gly)<sub>p</sub>-YGRKKRRQRRR-(gly)<sub>q</sub> (SEQ ID NO:20) wherein the subscripts p and q are each independently integers of from 0 to 20, and said positively charged branching

group <u>are is attached to said positively charged backbone via either the C-terminus or the N-terminus.</u>

- 16. (original) A composition in accordance with claim 15, wherein the subscripts p and q are each independently integers of from 0 to 8.
- 17. (original) A composition in accordance with claim 15, wherein the subscripts p and q are each independently integers of from 2 to 5.
- 18. (withdrawn) A composition in accordance with claim 11, wherein said polymer is a polylysine and said positively charged branching groups are attached to the lysine sidechain amino groups and are selected from the group consisting of -gly-gly-gly-arg-arg-arg-arg-arg-arg-arg (SEQ ID NO: 1) and HIV-TAT.
- 19. (currently amended) A composition comprising a non-covalent association complex of a positively-charged backbone having at least one attached efficiency group and at least one nucleic acid member selected from the group consisting of RNA, DNA, ribozymes, modified oligonucleotides and cDNA encoding a selected transgene, wherein said efficiency group is selected from the group consisting of
  - (1)  $(Gly)_{n1}$ - $(Arg)_{n2}$  (SEQ ID NOs: 2-7), wherein the subscript n1 is an integer of from 3 to about 5, and the subscript n2 is an odd integer of from about 7 to about 17,
    - (2) HIV-TAT or fragments thereof; and

- (3) a sequence with the formula  $(gly)_p$ -RGRDDRRQRRR- $(gly)_q$ , (SEQ ID NO:19) or  $(gly)_p$ -YGRKKRRQRRR- $(gly)_q$  (SEQ ID NO:20) wherein the subscripts p and q are each independently integers of from 0 to 20.
- 20. (original) A composition in accordance with claim 19, wherein said positively charged backbone is polylysine.
- 21. (cancelled)
- 22. (withdrawn) A composition in accordance with claim 19, wherein said positively charged backbone having at least one attached efficiency group is a 150,000 to 300,000 polylysine backbone having a plurality of attached Gly<sub>3</sub>Arg<sub>7</sub> (SEQ ID NO:1) groups wherein the degree of lysine saturation is from about 5% to about 30%.
- 23. (original) A composition in accordance with claim 19, wherein said nucleic acid member is cDNA encoding a selected transgene.
- 24. (original) A composition in accordance with claim 19, wherein said nucleic acid member is part of a plasmid that expresses a detectable product.
- 25. (original) A composition in accordance with claim 24, wherein said detectable product is a fluorescent protein.

- 26. (original) A composition in accordance with claim 24, wherein said detectable product is a blue fluorescent protein.
- 27. (original) A composition in accordance with claim 24, wherein said plasmid further comprises a CMV promoter.
- 28. (withdrawn) A method for delivery of a biological agent to a cell surface in a subject, said method comprising administering to said subject a composition comprising:
  - (a) a positively charged backbone;
  - (b) at least one biological agent selected from the group consisting of:
  - (i) a first negatively charged backbone having a plurality of attached imaging moieties;
  - (ii) at least one member selected from the group consisting of RNA, DNA, ribozymes, modified oligonucleotides and cDNA encoding a selected transgene; and
  - (iii) a third negatively charged backbone having a plurality of attached therapeutic agents; and
  - (c) a second negatively charged backbone having a plurality of attached targeting agents; wherein said composition is a non-covalent association complex of said positively charged backbone, said biological agent and said second negatively charged backbone having a plurality of attached targeting agents, and carries a net positive charge.

- 29. (withdrawn) A method in accordance with claim 28, wherein said biological agent is an oligonucleotide or a cDNA encoding a selected transgene, and said composition further comprises DNA encoding at least one persistence factor.
- 30. (withdrawn) A method in accordance with claim 28, wherein said biological agent is a first negatively charged backbone having a plurality of attached imaging moieties.
- 31. (withdrawn) A method in accordance with claim 28, wherein said biological agent is a third negatively charged backbone having a plurality of attached therapeutic agents.
- 32. (withdrawn) A method in accordance with claim 28, wherein said administering is intravenous.
- 33. (withdrawn) A method in accordance with claim 28, wherein said administering is transdermal.
- 34. (withdrawn) A method in accordance with claim 28, wherein said administering is carried out using an angioplastic balloon.
- 35. (withdrawn) A method in accordance with claim 28, wherein said administering is carried out using a catheter.

- 36. (withdrawn) A method in accordance with claim 28, wherein said administering is intraperitoneal.
- 37. (withdrawn) A method in accordance with claim 28, wherein said composition is in a gel formulation.
- 38. (withdrawn) A method for preparing a pharmaceutical composition, said method comprising combining

a positively charged backbone component and at least two members selected from the group consisting of

- i) a first negatively-charged backbone having a plurality of attached imaging moieties;
- ii) a second negatively-charged backbone having a plurality of attached targeting agents;
- iii) at least member selected from the group consisting of RNA, DNA, ribozymes, modified oligonucleotides and cDNA encoding a selected transgene;
  - iv) DNA encoding at least one persistence factor; and
- v) a third negatively-charged backbone having a plurality of attached therapeutic agents; with a pharmaceutically acceptable carrier to form a non-covalent association complex having a net positive charge, with the proviso that at least one of said two members from groups i) through v) is selected from groups i), iii) or v).

39. (currently amended) A kit for formulating a pharmaceutical delivery composition, said kit comprising

a positively charged backbone component and at least two non-identical members selected from the group consisting of

- i) a negatively-charged backbone having a plurality of attached imaging moieties;
- ii) a negatively-charged backbone having a plurality of attached targeting agents;
- iii) at least one member selected from the group consisting of RNA, DNA, ribozymes, modified oligonucleotides and cDNA encoding a selected transgene;
  - iv) DNA encoding at least one persistence factor; and
- v) a negatively-charged backbone having a plurality of attached therapeutic agents; and

instructions for preparing said pharmaceutical delivery composition.